

Homework pg 370 # 1-6



Use a number line to add.

$$(\underline{+5}) + (\underline{-6}) = -1 \quad 0 + (-5) \text{ ~~is~~ } = (-5)$$

$$(-2) + (-4) = -6 \quad (-5) + (+5) = 0$$

$$(-8) + (+6) = (-2)$$

Use a number line to add



$$(-3) + (+4) + (-6) = (-5) \quad (+3) + (-5) + (+7) = (+5)$$

$$(+6) + (-8) + (-1) = (-3) \quad (-10) + (+6) + (-2) = (-6)$$

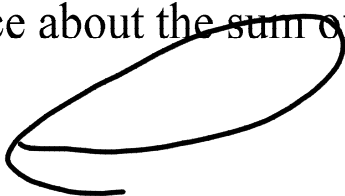
Write the opposite integer

(+8)	(-5)	(+2)	(-8)
(-8)	$(+5)$	(-2)	$(+8)$
0	0	0	0

Add each integer to its opposite in part a.

9) $(+8) + (-8) = 0$

What do you notice about the sum of two opposite integers?



Add.

$$(+8) + (+6) = (+14)$$
$$8 + 6 = 14$$

$$(+3) + (+7) = (+10)$$

$$(+5) + (+9) = (+14)$$

$$(+1) + (+12) = (+13)$$

Look at the integer expressions and sums in part a)

How are they related?

How can you use this relationship to add two positive integers without a number line or calculator?

Check the relationship in part b by adding two positive integers of your choice.

Add

$$(-7) + (-10)$$

Look at the integer expressions and sums in part a)

$$(-8) + (-6) = (-14)$$

How are they related?

How can you use this relationship to add two positive integers without a number line or calculator?

$$(-3) + (-7) = (-10)$$

Check the relationship in part b by adding two positive integers of your choice.

$$(-5) + (-9) = (-14)$$

$$(-1) + (-12) = (-13)$$

Find four pairs of integers that have the sum -5.

$$\begin{array}{cc} (-5) + 0 & (-4) + (-1) \\ (+5) + (-10) & (-3) + (-2) \end{array}$$

Find 4 pairs of integers that have the sum +4.

$$\begin{array}{cc} (+2) + (+2) & (-10) + (+14) \\ 0 + (+4) & (+3) + (+1) \end{array}$$